

080/01417 A04

**IN THE CLAIMS**

Please amend the claims as indicated by the amended claims set below. Claims 1, 7, 9, 11, 101 and 105 have been currently amended.

1. (Currently Amended) An electrode head including at least one bio-compatible electrode, comprising:  
a plurality of printed circuit boards (PCB), each having a face area and a thickness, attached along their face areas; and  
at least one bio-compatible electrode extending from the thickness of ~~[[the]]~~ at least one of the plurality of printed circuit board-boards.
2. (Cancelled)
3. (Previously Presented) An electrode head according to claim 1, wherein the plurality of printed circuit boards are attached with an adhesive which has at least 70% alcohol resistance.
4. (Previously Presented) An electrode head according to claim 1, wherein the at least one electrode comprises at least one electrode extending from each of the plurality of printed circuit boards (PCBs).
5. (Original) An electrode head according to claim 4, wherein the at least one electrode extending from each of the plurality of PCBs comprises at least eight electrodes extending from each of the PCBs.
6. (Original) An electrode head according to claim 1, wherein the at least one electrode comprises a plurality of electrodes which are held by the electrode head at fixed relative positions.
7. (Currently Amended) An electrode head according to claim 1, comprising at least one leading wire running along the at least one of the plurality of PCBs ~~PCB~~ and wherein the leading wire is formed as a single piece with one of the electrodes.

080/01417 A04

8. (Original) An electrode head according to claim 1, wherein the at least one electrode comprises at least one electrode tapered toward an end of the electrode, distal from the PCB.
9. (Currently Amended) An electrode head including at least one bio-compatible electrode, comprising:  
a plurality of printed circuit boards (PCBs), each having a face area and a thickness;  
and  
a plurality of electrodes extending from the thickness of the printed circuit boards, the electrodes being held by the circuit boards at fixed relative positions.
10. (Original) An electrode head according to claim 9, wherein the plurality of electrodes comprise gold plated electrodes.
11. (Currently Amended) An electrode head including at least one bio-compatible electrode, comprising:  
a plurality of printed circuit boards (PCB), each having a face area and a thickness, each of the PCBs being positioned with respect to at least one other PCB such that at least a portion of its face area overlaps most of the face area of the other PCB; and  
at least one bio-compatible electrode extending from the thickness of at least one of the printed circuit boards.
12. (Original) An electrode head according to claim 11, wherein each of the PCBs is connected to at least one other PCB such that substantially all of its face area overlaps substantially all of the face area of the other PCB.
- 13.-99. (Cancelled)
100. (Previously Presented) An electrode head according to claim 1, wherein each of the PCBs is connected to at least one other PCB such that substantially all of its face area overlaps substantially all of the face area of the other PCB.

080/01417 A04

101. (Currently Amended) An electrode head ~~according to claim 11, including at least one bio-compatible electrode, comprising:~~

a plurality of printed circuit boards (PCB), each having a face area and a thickness, each of the PCBs being positioned with respect to at least one other PCB such that at least a portion of its face area overlaps most of the face area of the other PCB; and  
at least one bio-compatible electrode extending from at least one of the printed circuit boards,

wherein the plurality of printed circuit boards are attached with an adhesive which has at least 70% alcohol resistance.

102. (Previously Presented) An electrode head according to claim 11, wherein the at least one electrode comprises at least one electrode extending from each of the plurality of printed circuit boards (PCBs).

103. (Previously Presented) An electrode head according to claim 102, wherein the at least one electrode extending from each of the plurality of PCBs comprises at least eight electrodes extending from each of the PCBs.

104. (Previously Presented) An electrode head according to claim 11, wherein the at least one electrode comprises a plurality of electrodes which are held by the electrode head at fixed relative positions.

105. (Currently Amended) An electrode head ~~according to claim 11, including at least one bio-compatible electrode, comprising:~~

a plurality of printed circuit boards (PCB), each having a face area and a thickness, each of the PCBs being positioned with respect to at least one other PCB such that at least a portion of its face area overlaps most of the face area of the other PCB;  
at least one bio-compatible electrode extending from at least one of the printed circuit boards; and

~~comprising~~ at least one leading wire running along at least one of the PCBs and wherein the leading wire is formed as a single piece with one of the electrodes.

080/01417 A04

106. (Previously Presented) An electrode head according to claim 11, wherein the at least one electrode comprises at least one electrode tapered toward an end of the electrode, distal from the PCB.